

## **Historic, Archive Document**

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United States  
Department of  
Agriculture

Soil  
Conservation  
Service

Boise,  
Idaho



# Idaho Water Supply Outlook

May 1, 1988



# Foreword

## How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are terms reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

## For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 87102-3157
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201-1080
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

# Idaho Water Supply Outlook

and

## Federal — State — Private Cooperative Snow Surveys

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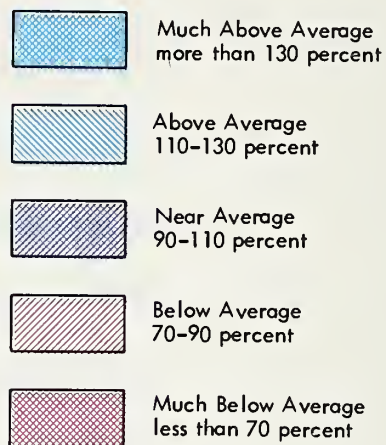
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# STREAMFLOW PROSPECTS IDAHO

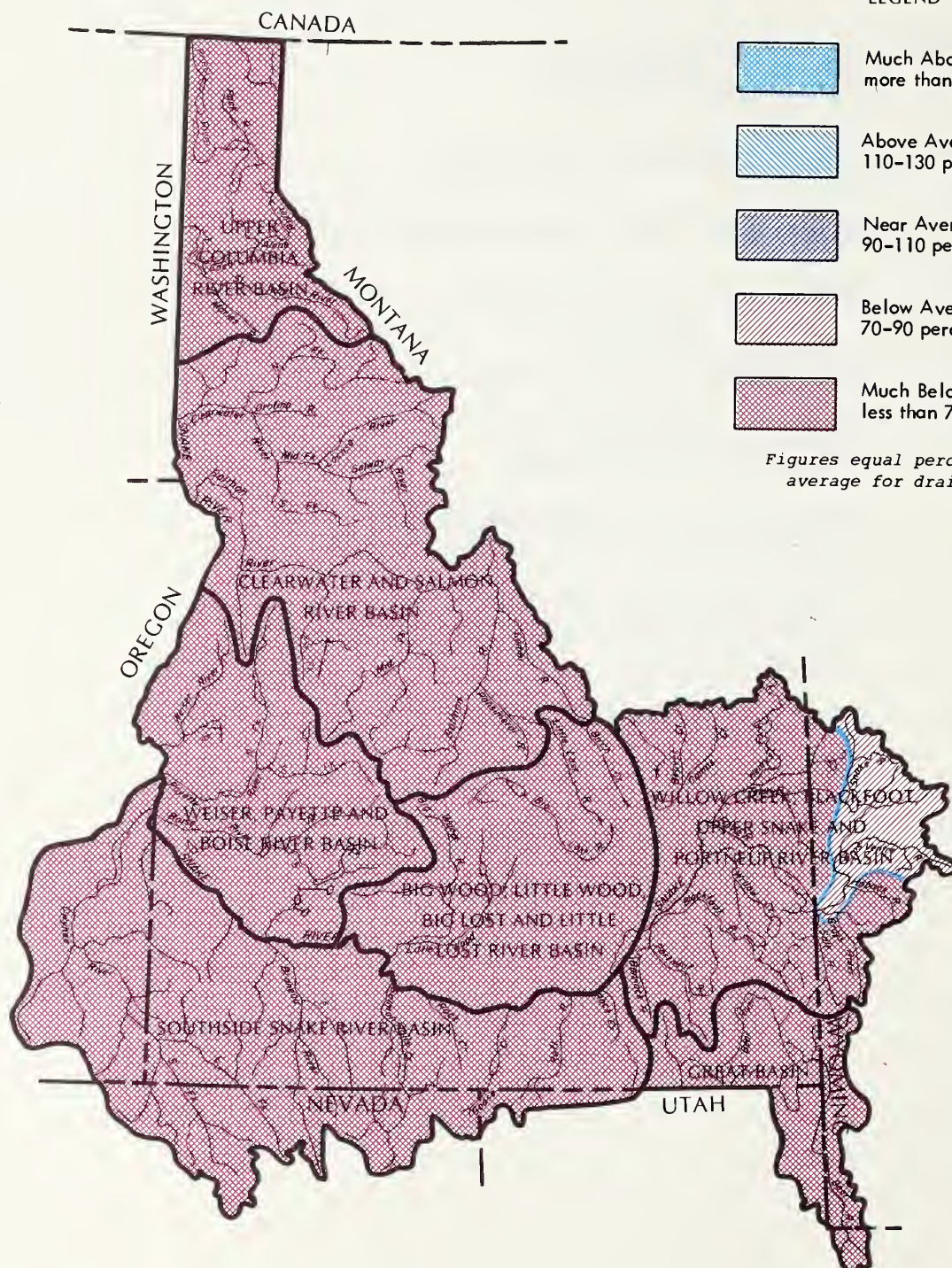
0 25 50 75 100 MI

0 50 100 150 KM

## LEGEND



Figures equal percent of  
average for drainage.





## GENERAL OUTLOOK

### SUMMARY:

APRIL BROUGHT NEAR TO WELL ABOVE NORMAL PRECIPITATION TO MOST OF IDAHO. UNFORTUNATELY, MOST OF THIS PRECIPITATION WAS IN THE FORM OF RAIN OR WET SNOW WHICH MELTED WITHIN A FEW DAYS AND DID LITTLE TO IMPROVE SNOWPACK CONDITIONS. HOWEVER, THE RAIN WAS A WELCOME RELIEF IN AGRICULTURAL VALLEYS WHERE IT IMPROVED SOIL MOISTURE CONDITIONS AND REDUCED IRRIGATION DEMANDS. ABOVE NORMAL TEMPERATURES IN THE MIDDLE OF APRIL PRODUCED HIGH SNOWMELT RATES AND SNOWPACK CONDITIONS DETERIORATED SIGNIFICANTLY. DRY SOILS ABSORBED MUCH OF THE SNOWMELT AND RAINFALL, SO STREAMFLOWS REMAINED NEAR OR BELOW NORMAL FOR THE MONTH. STREAMFLOW FORECASTS FOR THE REMAINDER OF THE SPRING AND SUMMER REMAIN WELL BELOW NORMAL, PARTICULARLY IN THE LOWER ELEVATION BASINS.

### SNOWPACK:

May 1 snow surveys taken at selected sites show the mountain snowpack is well into the melt phase. Approximately 40% of the winter's accumulation has melted since April 1, and most lower elevation basins have lost nearly all of their snowpack. This early melt is due to an unusually warm period April 10-18. Cooler than normal temperatures followed this period, bringing snowmelt at high elevations to a standstill. In northern Idaho, snowpack conditions range from 54 to 75% of normal in the higher elevations. Snowpacks in the central Idaho mountains now range from 31 to 57% of normal. The higher elevations of eastern Idaho report 60 to 75% of average snowpack. In southern Idaho, high elevation snowpacks range from 30 to 73% of normal. Lower elevation snowpacks throughout the state have melted or are nearly melted. If above average temperatures return during May, nearly all of the mountain snowpack will be depleted by June 1.

## PRECIPITATION:

The wet pattern that began in March continued in April as a series of storms brought normal to well above normal precipitation to almost all of the state. Only the southeast corner recorded below normal amounts. A particularly wet storm from April 19 through April 21 produced heavy amounts of rain and some snow, and this was the major producer of precipitation for the month. The state averaged about 130% of normal for the month. A breakdown of percentages by area shows the central and northern sections of the state ranged from 99% at Lewiston to 178 at Kellogg. Southwest Idaho also did well during the month with Boise at 151% of normal and Parma at 90%. Southcentral Idaho had a range of 239% at Ketchum to 104% at Twin Falls. Ketchum recorded 1.63" of rain in one 48-hour period. Southeast Idaho did not do as well with percentages varying from 95% at Idaho Falls to only 53% of normal at Malad. Areas north of Idaho Falls did much better with Dubois at 240% and Ashton at 150% of normal. Temperatures for the month were typical of spring with several periods of above normal temperatures followed by several days of unusually cool weather. One extended period of above normal temperatures did occur in mid-April and several record high temperatures were set during that time. Overall, the state averaged above normal for the month with Salmon the warmest at a plus 5.4 degrees. Bonners Ferry, Boise, and Pocatello were all about 4 degrees above average. Lewiston reported 3.2 degrees above normal, while Twin Falls was only 1.5 degrees above average.

## RESERVOIRS:

Reservoir storages across the state vary from only 34% of normal for May 1 in Magic Reservoir to 174% in Brownlee. Most reservoir operators are trying to store as much water as possible in anticipation of the low runoff volumes expected. Trouble spots in the state include Oakley Reservoir, with 55% of normal storage and only 28% of capacity; Salmon Falls at 74% of normal and 33% of capacity; Owyhee with only 45% of average storage and 38% of capacity; and Magic at 34% of normal and only 30% full. The four reservoir Boise system is currently at 76% of normal storage and 55% of capacity. Most of these reservoirs are not expected to fill this year. Water users are encouraged to stay in touch with their local reservoir company for more information about their particular water supply.

## **STREAMFLOW:**

Dry soils absorbed much of the precipitation that occurred during April. Streamflows began to rise with the heavy snowmelt near the middle of April, but quickly receded with the cooler weather in the last 12 days of the month. As a result, streamflow conditions for April generally remained near or below normal across the state. Streamflow projections for the remainder of the irrigation season are below to well below normal throughout Idaho, with the lowest forecasts being found in southcentral and southwestern Idaho and the lower elevation basins in eastern Idaho. May-July forecasts now range from 31% to 71% of normal. In northern Idaho, forecasts range from 33 to 69% of normal. In central and southcentral Idaho, forecasts range from only 31% to 60% of normal. Streamflow projections in the eastern part of the state range from 61% to 70% of normal on the higher elevation basins and 40 to 46% on the lower basins. Assuming near normal temperature conditions prevail over the state during May, peak flows are expected to occur between the middle and end of May.

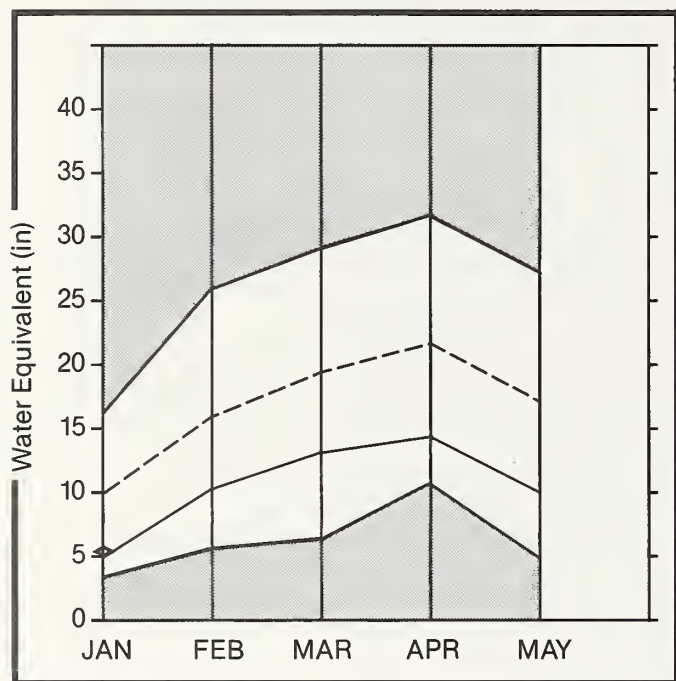
## **RECREATIONAL OUTLOOK:**

Cool temperatures and near normal or above normal precipitation throughout the state during April have added to the positive outlook for spring and summer whitewater rafting prospects. Peak flows on most Idaho streams are predicted for late May/early June and should be above last year's peak flows. With the exception of the Murtaugh stretch of the Snake River and the Owyhee River system of southwestern Idaho, whitewater enthusiasts can expect more water than last year. Cool weather in May and June would also add to the prospect for higher flows over a longer period.



# Upper Columbia Basin

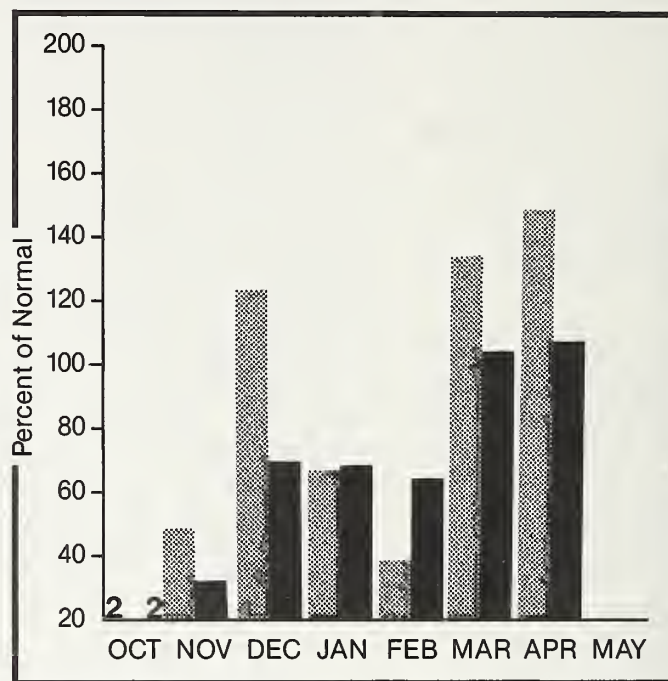
Mountain snowpack\* (inches)



\*Based on selected stations

Maximum ——— Average - - - - -  
Minimum ——— Current ———

Precipitation\* (percent of normal)



\*Based on selected stations

Monthly precipitation [hatched bar] Year to date precipitation [solid black bar]

## WATER SUPPLY OUTLOOK:

May 1 snow measurements show a deterioration in snowpack conditions since the first of April, even though precipitation was well above normal. Most snowpack below 4800 feet elevation has been depleted and higher elevation snowpacks are generally 55 to 65% of normal. This reduction in snowpack is primarily the result of high snowmelt rates during the April 10-18 period, and the month's precipitation falling in the form of rain or wet snow which dissipated quickly. The snowmelt and above normal precipitation improved soil moisture conditions within the basin, and brought improved streamflows with the Spokane at Post Falls reporting 85% of normal flow during April. Water supply forecasts for the May-July period range from 33% to 70%. Reservoir storage levels also improved during April and range from 78 to 119% of normal. Most storage systems are expected to fill as the remaining snow melts and water supplies should be adequate to meet user demands throughout the basin.



# UPPER COLUMBIA RIVER BASIN

## STREAMFLOW FORECASTS

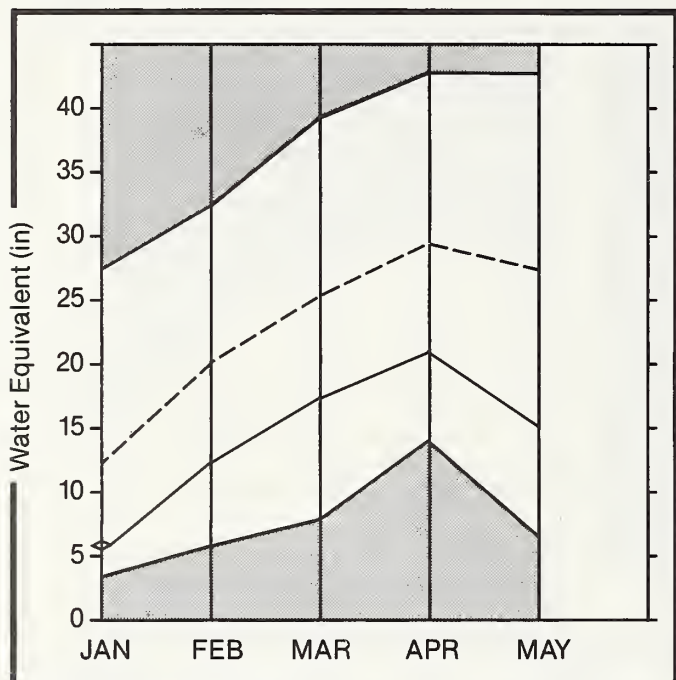
FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
KOOTENAI at Leona *	MAY-SEP MAY-JUL	7687.0 6586.0	5370.0 4560.0	70 69	6680.0 5680.0	87 86	3990.0 3380.0	52 51
CLARK FORK at White Horse Rapids *	MAY-SEP MAY-JUL	11760.0 10540.0	7450.0 6620.0	63 63	9450.0 8410.0	80 80	5450.0 4830.0	46 46
PEND OREILLE LAKE inflow *	MAY-SEP MAY-JUL	12960.0 11680.0	7740.0 6920.0	60 59	9810.0 8790.0	76 75	5540.0 4930.0	43 42
PRIEST RIVER at Priest *	MAY-SEP	715.0	335.0	47	500.0	70	180.0	25
SPOKANE at Post Falls *	MAY-SEP MAY-JUL	1957.0 1859.0	1010.0 945.0	52 51	1700.0 1580.0	87 85	310.0 370.0	16 20
ST. JOE at Calder	MAY-SEP MAY-JUL	1008.0 938.0	520.0 565.0	52 60	805.0 740.0	80 79	320.0 350.0	32 37
COEUR D' ALENE at Enaville	MAY-SEP MAY-JUL	543.0 503.0	192.0 165.0	35 33	420.0 370.0	77 74	81.0 100.0	15 20

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	** USEABLE STORAGE LAST YEAR	** AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
HUNGRY HORSE	3451.0	1019.0	2665.0	2040.0	Kootenai ab Bonners Ferry	53	108	64
FLATHEAD LAKE	1791.0	864.0	944.8	929.0	Pend Oreille River	157	149	61
PEND OREILLE	1155.0	953.4	555.0	920.7	Clark Fork River	107	181	61
NOXON RAPIDS	335.0	275.6	329.1	186.3	Priest River	5	77	54
COEUR D'ALENE	222.8	248.2	281.2	317.2	Rathdrum Creek	0	0	0
PRIEST LAKE	97.7	88.8	99.8	74.4	Hayden Lake	0	0	0
					Coeur d'Alene River	9	141	43
					St. Joe River	7	131	65
					Spokane River	16	134	55
					Palouse River	0	0	0

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.  
2 - Corrected for upstream diversions or changes in reservoir storage.  
The average is computed for the 1961-85 base period.

# Clearwater and Salmon River Basin

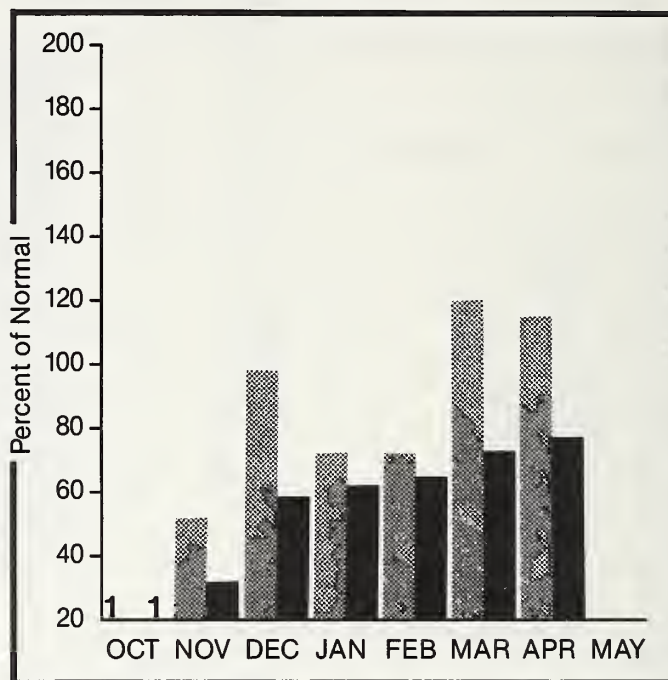
**Mountain snowpack\* (inches)**





\*Based on selected stations

Maximum  Average   
Minimum  Current 

**Precipitation\* (percent of normal)**



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

April brought above to much above normal precipitation to both the Clearwater and Salmon River basins. Much of this precipitation, however, was in the form of rain or wet snow which melted quickly. Coupled with high snowmelt rates near the middle of April, this has resulted in an overall deterioration in snowpack conditions. May 1 snow surveys show basin snowpacks ranging from 52% of normal on the Salmon drainage to 75% on the Selway. Low elevation snowpacks have dissipated, middle elevation snowpacks generally range from 40-60% of average, and high elevations generally have 65 to 80% of normal snow. May-July streamflow projections range from 52% to 59% of average. Peak streamflow discharges are expected to occur in mid to late May, assuming near normal weather patterns during the month. Dworshak reservoir storage improved during the month to 110% of average, but this is only 72% of capacity. Releases to meet downstream needs will prevent filling Dworshak to capacity.

# CLEARWATER AND SALMON RIVER BASIN

## STREAMFLOW FORECASTS

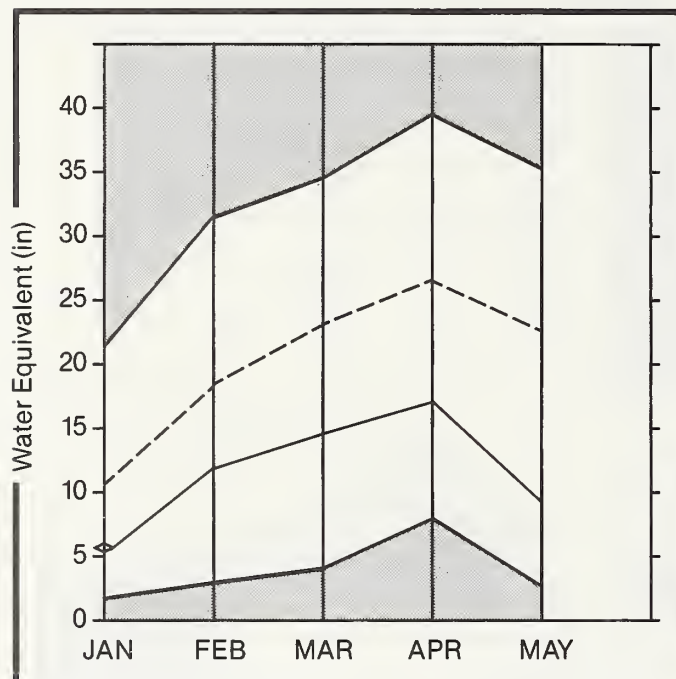
FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
CLEARWATER at Orofino	MAY-SEP	4318.0	2470.0	57	3460.0	80	1430.0	33
CLEARWATER at Spalding	MAY-SEP	6787.0	3940.0	58	5300.0	78	2580.0	38
	MAY-JUL	6325.0	3740.0	59	5000.0	79	2480.0	39
DWORSHAK RESERVOIR inflow	MAY-SEP	2366.0	1210.0	51	1640.0	69	785.0	33
	MAY-JUL	2179.0	1130.0	52	1520.0	70	740.0	34
SALMON at Salmon	MAY-SEP	984.0	550.0	56	855.0	87	235.0	24
SALMON at Whitebird	MAY-SEP	6363.0	3520.0	55	4600.0	72	2380.0	37
	MAY-JUL	5678.0	3180.0	56	4140.0	73	2160.0	38

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
DWORSHAK	3467.8	2499.8	3324.8	2276.0	North Fork Clearwater	14	137	62
					Lochsa River	5	173	71
					Selway River	6	189	75
					Clearwater River	21	154	66
					Salmon River ab Salmon	6	238	57
					Lemhi River	3	329	74
					Salmon River Total	21	249	52




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2 - Corrected for upstream diversions or changes in reservoir storage.  
The average is computed for the 1961-85 base period.

# Weiser, Payette, and Boise River Basin

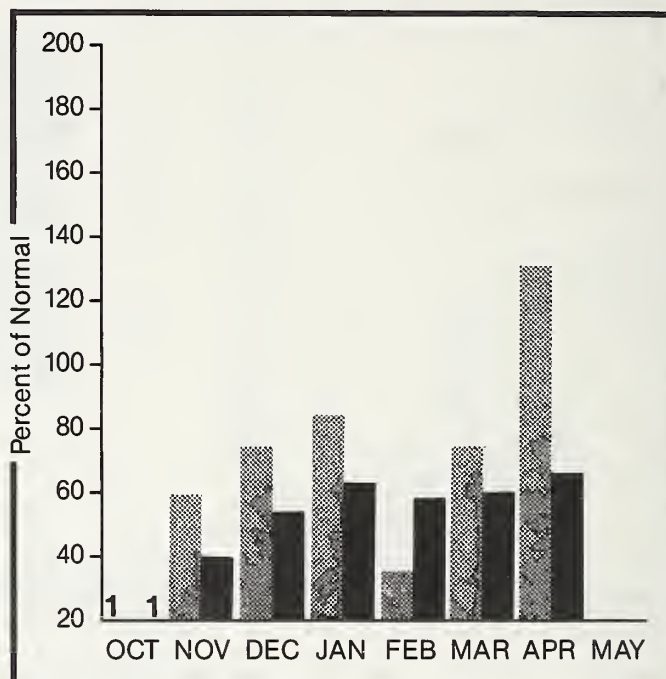
**Mountain snowpack\* (inches)**



\*Based on selected stations

Maximum  Average   
Minimum  Current 

**Precipitation\* (percent of normal)**



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Precipitation during the past month was generally above to much above normal over the basin for the first time this water year, which began October 1, 1987. Most of the precipitation fell in the form of rain or wet snow which melted quickly and did little to improve snowpack conditions. High snowmelt rates near the middle of April resulted in May 1 snowpack conditions showing a significant decrease since the first of April. Most snowpack below 5500 ft. elevation is now depleted. May 1 snowpacks range from 31 to 56% of normal on the higher elevation basins of the Payette and Boise, while the Weiser basin is nearly melted out - reporting only 7% of normal snowpack. Dry soils under the snow absorbed much of the snowmelt and precipitation during the month and streamflows remained near to well below average for April. May-July streamflows are forecast to be well below normal, ranging from only 36% of average on the Weiser at Weiser to 48% on the Boise River nr Twin Springs. Reservoir storage levels improved slightly during the month, but generally remain below normal and most reservoirs will not fill to capacity.



# WEISER, PAYETTE AND BOISE RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
WEISER at Weiser	MAY-JUL	272.0	97.0	36	192.0	71	27.0	10
PAYETTE nr Horseshoe *	MAY-SEP	1551.0	705.0	45	1020.0	66	385.0	25
	MAY-JUL	1406.0	645.0	46	885.0	63	405.0	29
NF PAYETTE at Cascade *	MAY-SEP	479.0	210.0	44	300.0	63	125.0	26
	MAY-JUL	441.0	200.0	45	280.0	63	120.0	27
NF PAYETTE nr Banks *	MAY-SEP	601.0	250.0	42	365.0	61	136.0	23
	MAY-JUL	557.0	240.0	43	345.0	62	135.0	24
SF PAYETTE at Lowman	MAY-SEP	463.0	215.0	46	295.0	64	135.0	29
	MAY-JUL	404.0	190.0	47	265.0	66	120.0	30
DEADWOOD RESERVOIR inflow	MAY-JUL	129.0	58.0	45	84.0	65	42.0	33
BOISE RIVER nr Twin Springs	MAY-SEP	602.0	280.0	47	375.0	62	185.0	31
	MAY-JUL	544.0	260.0	48	350.0	64	175.0	32
SF BOISE AT Anderson Dam *	MAY-SEP	507.0	210.0	41	300.0	59	119.0	23
SF BOISE at Anderson Dam *	MAY-JUL	466.0	197.0	42	280.0	60	110.0	24
BOISE RIVER nr Boise *	MAY-SEP	1295.0	530.0	41	840.0	65	260.0	20
	MAY-JUL	1175.0	490.0	42	730.0	62	245.0	21

## RESERVOIR STORAGE

(1000AF)

## WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
MANN CREEK	11.3	8.6	11.3	10.4		Mann Creek	1	0	0
CASCADE	703.2	442.5	561.2	411.7		Weiser River	4	61	7
DEADWOOD	162.0	89.4	117.8	101.1		North Fork Payette	9	164	31
ANDERSON RANCH	464.2	180.0	416.4	327.2		South Fork Payette	7	183	41
ARROWROCK	286.6	116.0	130.8	214.9		Payette River Total	15	178	36
LUCKY PEAK	307.0	257.6	294.0	182.9		Middle & North Fork Boise	9	208	56
LAKE LOWELL (DEER FLAT)	177.0	127.3	140.1	169.8		South Fork Boise River	8	193	53
						Boise River Total	17	211	46
						Canyon Creek	1	0	0

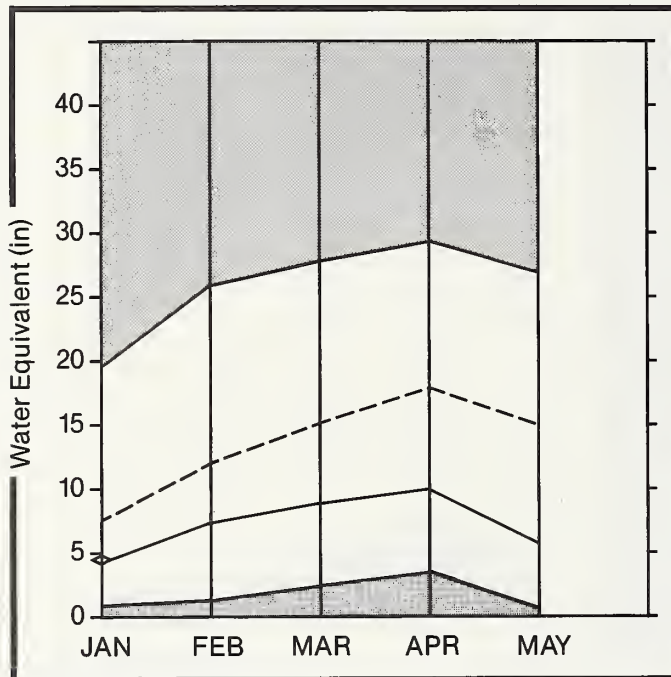
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

# Big Wood, Little Wood, Big Lost, and Little Lost River Basin

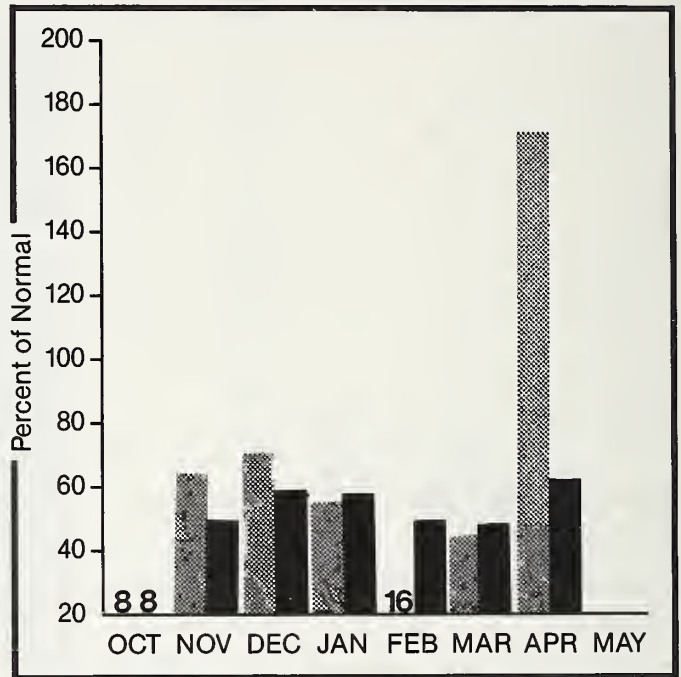
**Mountain snowpack\* (inches)**





\*Based on selected stations

Maximum  Average   
Minimum  Current 

**Precipitation\* (percent of normal)**



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Precipitation during April ranged from near to well above average over the basin for the first time since the water year began. Most precipitation came in the form of rain or wet snow which melted quickly. Coupled with high snowmelt rates near the middle of April, this resulted in snowpack conditions showing a significant decrease since April 1. May 1 snowpacks range from 45 to 50% of normal in the higher elevation basins of the Big Wood, Big Lost, and Little Lost. The Little Wood basin shows only 31% of normal snowpack remaining. Snowpack in the Camas Creek drainage is nearly depleted with no sites reporting measurable amounts of snow. May-July streamflow forecasts range from only 32% of normal on Magic Reservoir inflow to 52% on the Little Lost. Reservoir storage levels improved somewhat during the month as most operators released only minimum required amounts of water. Magic Reservoir remains very low at only 34% of average and 30% of capacity. Water will be in short supply on most basins, particularly on the Big Wood/Magic system.

# BIG WOOD, LITTLE WOOD, BIG LOST AND LITTLE LOST RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
BIG WOOD nr Bellevue	MAY-SEP	190.0	61.0	32	110.0	58	19.0	10
	MAY-JUL	175.0	58.0	33	104.0	59	17.0	10
MAGIC RESERVOIR inflow	MAY-SEP	237.0	74.0	31	150.0	63	23.0	10
	MAY-JUL	221.0	70.0	32	141.0	64	22.0	10
LITTLE WOOD nr Carey	MAY-SEP	79.0	28.0	35	55.0	70	8.0	10
	MAY-JUL	71.0	26.0	37	48.0	68	8.0	11
BIG LOST at Howell Ranch	MAY-SEP	208.0	92.0	44	146.0	70	38.0	18
	MAY-JUL	181.0	81.0	45	128.0	71	34.0	19
BIG LOST nr Mackay *	MAY-SEP	182.0	80.0	44	138.0	76	22.0	12
	MAY-JUL	148.0	67.0	45	114.0	77	20.0	14
LITTLE LOST bl Wet Ck.	MAY-SEP	35.2	17.8	51	28.0	80	7.0	20
	MAY-JUL	27.8	14.4	52	23.0	83	6.0	22
LITTLE LOST nr Howe	MAY-SEP	38.0	19.0	50	30.0	79	8.0	21
	MAY-JUL	28.0	14.2	51	23.0	82	6.0	21

RESERVOIR STORAGE (1000AF)		WATERSHED SNOWPACK ANALYSIS						
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.				
MAGIC	191.5	57.6	147.9	167.7	Big Wood ab Magic	9	283	45
LITTLE WOOD	30.0	26.7	29.1	24.6	Camas Creek	3	0	0
CAREY VALLEY		NO REPORT			Big Wood Total	11	253	38
MACKAY	44.5	31.8	40.6	34.2	Little Wood River	4	336	31
					Fish Creek	0	0	0
					Big Lost River	5	315	46
					Little Lost River	3	0	50

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

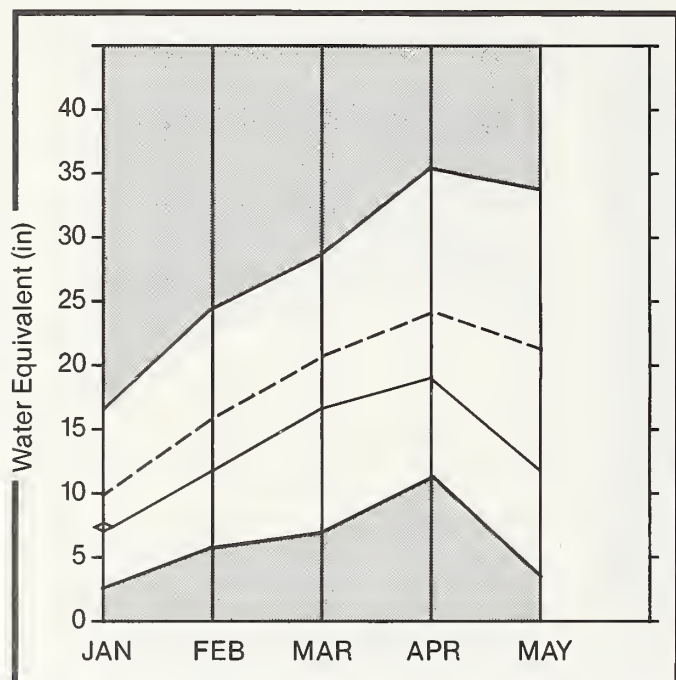
2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.



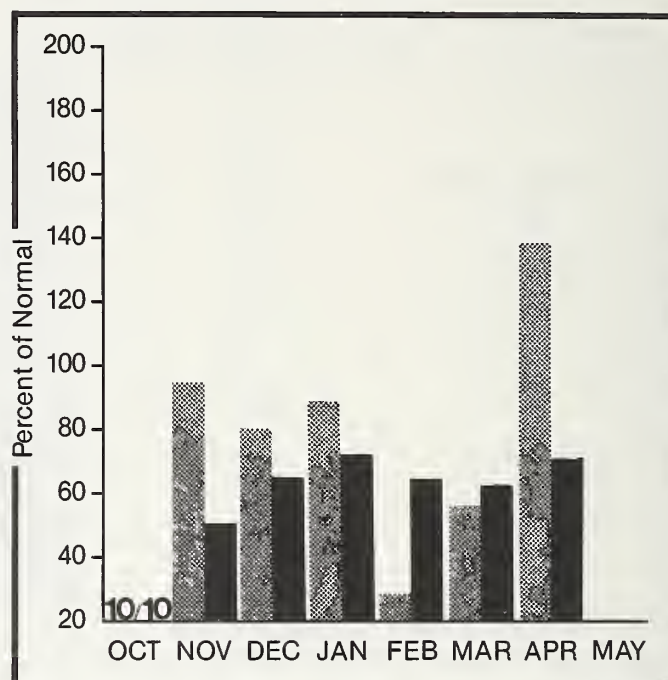
# Willow Creek, Blackfoot, Upper Snake, and Portneuf River Basin

**Mountain snowpack\*** (inches)



\*Based on selected stations

**Precipitation\*** (percent of normal)



\*Based on selected stations

Maximum



Average



Minimum



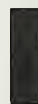
Current



Monthly precipitation



Year to date precipitation



## WATER SUPPLY OUTLOOK:

April precipitation, most in the form of rain or wet snow which melted quickly, was near to well above average over most of the basin. Warm temperatures during mid April brought heavy snowmelt to much of the basin, particularly in the lower elevations. As a result, May 1 snow surveys show a significant decline in low elevation snowpack conditions over the past month with the Portneuf, Blackfoot, and Willow Creek drainages being nearly depleted of their winter snow. Snowpack conditions on the Henry's Fork, Teton, and Upper Snake River in Wyoming show moderate declines, but remain in the 60 to 75% of normal range. Streamflow forecasts have been reduced by as much as 15% on the lower basins, while higher basin forecasts show only a slight decrease. Forecasts now range from 46% of normal on the Portneuf at Topaz to 73% on the Snake at Moran. Reservoir carryover storage is good with most reservoirs reporting near or above normal storage. Most reservoirs are expected to fill to capacity with the exception of Ririe and Blackfoot reservoirs. Some water shortages may occur on the lower elevation tributaries to the Snake, and water users on these basins should keep in touch with their local irrigation districts for supply conditions in their area.



**WILLOW CREEK, BLACKFOOT, UPPER SNAKE AND PORTNEUF RIVER BASIN**

**STREAMFLOW FORECASTS**

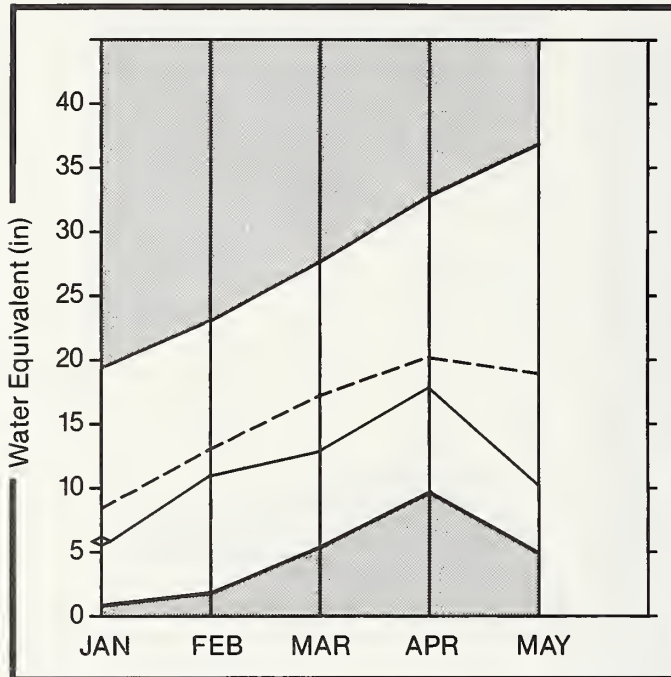
FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
HENRY'S FORK nr Ashton *	MAY-SEP	639.0	385.0	60	445.0	70	325.0	51
	MAY-JUL	449.0	275.0	61	310.0	69	240.0	53
HENRYS FORK nr Rexburg *	MAY-SEP	1389.0	850.0	61	1055.0	76	650.0	47
	MAY-JUL	1055.0	655.0	62	790.0	75	500.0	47
FALLS RIVER nr Squirrel	APR-JUL	373.0	250.0	67	305.0	82	194.0	52
TETON RIVER ab S Leigh Ck	MAY-SEP	172.0	107.0	62	145.0	84	69.0	40
	MAY-JUL	123.2	77.0	63	104.0	84	50.0	41
TETON nr St. Anthony	MAY-SEP	434.0	275.0	63	320.0	74	225.0	52
	MAY-JUL	342.0	220.0	64	255.0	75	180.0	53
SNAKE AT Moran *	APR-SEP	888.0	650.0	73	745.0	84	540.0	61
PALISADES LAKE inflow *	APR-SEP	3852.0	2750.0	71	3450.0	90	2060.0	53
SNAKE nr Heise *	MAY-SEP	3790.0	2610.0	69	3410.0	90	1820.0	48
	MAY-JUL	3173.0	2220.0	70	2820.0	89	1550.0	49
SNAKE nr Blackfoot *	MAY-SEP	5243.0	3570.0	68	4360.0	83	2840.0	54
	MAY-JUL	4152.0	2890.0	70	3510.0	85	2240.0	54
PORTNEUF at Topaz	MAY-SEP	78.0	34.0	44	57.0	73	11.0	14
	MAY-JUL	57.0	26.0	46	43.0	75	9.0	16

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
ISLAND PARK	127.6	136.0	135.4	125.7	Camas-Beaver Creeks	1	0	10
GRASSY LAKE	15.2	10.3	14.4	11.5	Henrys Fork River	8	908	60
JACKSON LAKE	624.4	156.7	201.7	494.3	Teton River	9	300	67
PALISADES	1200.0	1119.1	1350.9	871.8	Snake above Palisades	18	184	66
AMERICAN FALLS	1700.0	1641.8	1601.8	1542.9	Snake above Jackson Lake	2	551	72
BROWNLEE	975.3	895.3	948.5	515.9	Gros Ventre River	2	113	75
BLACKFOOT	348.7	279.1	320.5	274.6	Greys River	4	152	73
HENRY'S LAKE	90.4	85.2	87.0	81.8	Salt River	4	0	8
RIRIE	96.5	66.4	69.8	63.5	Willow Creek	6	0	4
					Blackfoot River	3	0	4
					Portneuf River	2	0	0
					Toponce Creek	0	0	0





1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.  
2 - Corrected for upstream diversions or changes in reservoir storage.  
The average is computed for the 1961-85 base period.

# Southside Snake River Basin

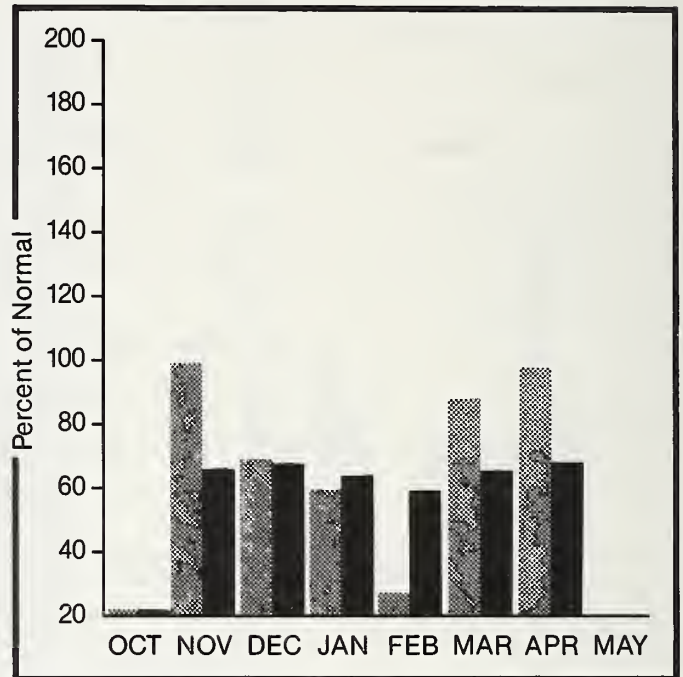
**Mountain snowpack\* (inches)**



\*Based on selected stations

Maximum  Average   
 Minimum  Current 

**Precipitation\* (percent of normal)**



\*Based on selected stations

 Monthly precipitation  
 Year to date precipitation

## WATER SUPPLY OUTLOOK:

Mid-April's warm period caused a tremendous decline in the mountain snowpack in the low elevation watersheds of extreme southern Idaho. Salmon Falls Creek basin, for example, dropped from 82% of average snowpack on April 1 to only 46% as of May 1. Precipitation for April was near average for the basin, but the loss of snowpack in April has reduced streamflow forecasts considerably. Volume forecasts now range from 31% of normal for Owyhee Lake Inflow to 60% for Salmon Falls Creek. Reservoir storage is well below normal on Owyhee, Salmon Falls, and Oakley reservoirs, and they are not expected to fill this year. Water users are advised to keep in touch with their local irrigation districts for estimates of the supply available to them.

# SOUTHSIDE SNAKE RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
OAKLEY RESERVOIR inflow	MAY-SEP	25.0	11.0	44	18.5	74	3.0	12
	MAY-JUL	22.0	10.0	45	16.0	73	3.0	14
SALMON FALLS CK nr San Jacinto	MAY-SEP	67.0	39.0	58	67.0	100	13.4	20
	MAY-JUL	62.0	37.0	60	60.0	97	13.0	21
BRUNEAU nr Hot Springs	MAY-SEP	188.0	98.0	52	168.0	89	30.0	16
	MAY-JUL	176.0	94.0	53	159.0	90	31.0	18
OWYHEE RIVER nr Gold Creek *	APR-JUL	27.8	13.0	47	28.0	101	3.0	11
OWYHEE RIVER nr Owyhee *	APR-JUL	86.0	38.0	44	65.0	76	11.0	13
OWYHEE LAKE inflow *	MAY-SEP	260.0	78.0	30	195.0	75	31.0	12
	MAY-JUL	232.0	72.0	31	165.0	71	30.0	13
OWYHEE at Rome *	MAY-JUL	189.0	64.0	34	149.0	79	15.0	8

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** THIS YEAR	USEABLE STORAGE LAST YEAR	** AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
OAKLEY	77.4	21.4	34.6	39.2	Raft River	1	135	41
SALMON FALLS	182.6	60.4	101.8	81.4	Goose-Trapper Creeks	1	200	62
OWYHEE	715.0	273.6	523.2	606.9	Salmon Falls Creek	9	202	46
					Bruneau River	5	191	73
					Owyhee River	3	311	39

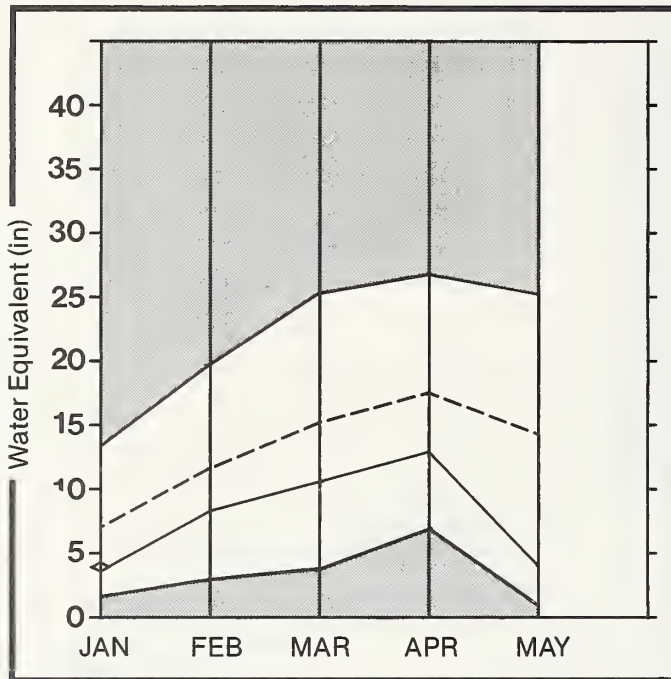
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

# Great Basin

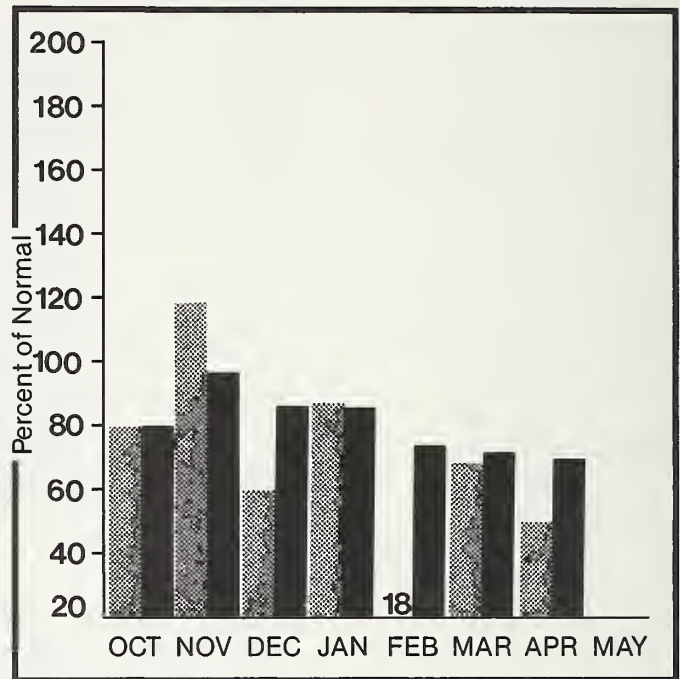
**Mountain snowpack\* (inches)**



\*Based on selected stations

Maximum  Average   
 Minimum  Current 

**Precipitation\* (percent of normal)**



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Snowpack conditions in the Great Basin have declined significantly since April 1, due to a very warm period in mid-April. Basin snowpack, in percent of normal, currently ranges from 49% in the Bear Lake drainage to 30% in the Montpelier Creek area. The Great Basin was the driest part of the state in April, receiving only 50% of normal rainfall at valley stations. This low precipitation, coupled with the decline in snowpack, has reduced streamflow forecasts from those reported a month ago. Forecasts now range from 39 to 41%. Reservoir storage is slightly above normal, with Bear Lake at 103% of average (77% of capacity), and Montpelier Creek Reservoir at 109% (74% of capacity).



# GREAT BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
BEAR at Harer	APR-SEP	310.0	138.0	41	199.0	64	77.0	25
MONTPELIER CK nr Montpelier	MAY-SEP	11.3	4.6	41	8.0	71	1.0	9
CUB RIVER nr Preston	MAY-SEP	51.0	20.0	39	38.0	75	5.0	10
	MAY-JUL	46.0	18.5	40	35.0	76	5.0	11

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
BEAR LAKE	1421.0	1096.0	1118.9	1059.0	Bear River (above Harer)	11	138	49
MONTPELIER CREEK	3.4	2.5	3.3	2.3	Montpelier Creek	5	294	30
					Mink Creek	2	1800	34
					Cub River	3	138	46
					Malad River	0	0	0

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

# SNOW DATA MEASUREMENTS

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
UPPER COLUMBIA BASIN							WATERSHED I						
ABOVE BURKE	4100	4/27/88	18	8.0	2.8	18.6	SAVAGE PASS	6170	5/03/88	52	20.0	11.4	27.9
BEAR MOUNTAIN	5400	4/24/88	85	40.4	43.4	63.2	SAVAGE PASS PILLOW	6170	5/01/88	---	18.6	9.1	29.6
BEAR MTN PILLOW	5400	5/01/88	---	50.7	49.2	64.5	SECESH SUMMIT	6520	4/30/88	35	15.4	6.2	34.5
BENTON MEADOW	2370	4/28/88	0	.0	.0	.0	SECESH SUMMIT PILLOW	6520	5/01/88	---	18.3	6.0	34.9
BENTON SPRING	4920	4/28/88	4	1.7	1.6	15.4	SHANGHAI SUMMIT	4570	4/26/88	11	4.6	.0	21.1
BREEZY SADDLE	5010	4/26/88	29	12.0	8.1	26.9	SHANGHAI SUM PILLOW	4570	5/01/88	---	.8	.0	22.4
COPPER RIDGE	4820	4/27/88	7	3.8	.0	22.2	SHERWIN	3200	4/28/88	0	.0	.0	4.6
FORTY-NINE MEADOWS	4830	4/26/88	26	11.6	4.2	25.1	SHERWIN PILLOW	3200	5/01/88	---	.0	.0	6.8
FOURTH OF JULY SUM	3200	4/27/88	0	.0	.0	.4	SQUAW MEADOW	5900	4/30/88	27	11.8	7.2	34.8
GRANITE PEAK	6000	4/26/88	75	30.6	24.9	46.1	TWIN LAKES	6510	5/01/88	78	34.0	23.8	45.2
HUMBOLDT GULCH	4250	4/27/88	0	.0	.0	13.0	VIENNA MINE	8960	4/27/88	59	25.9	15.4	39.1
HUMBOLDT GLCH PILLOW	4250	5/01/88	---	.0	.0	10.1	VIENNA MINE PILLOW	8960	5/01/88	---	24.8	12.8	40.3
LOOKOUT	5140	4/27/88	38	17.2	13.6	32.7	WEST BRANCH	5560	4/30/88	0	.0	.0	18.6
LOOKOUT PILLOW	5140	5/01/88	---	14.6	11.3	31.3	WEST BRANCH PILLOW	5560	5/01/88	---	.0	.0	20.2
LOST LAKE	6110	4/26/88	91	39.1	35.5	60.1							
LOST LAKE PILLOW	6110	5/01/88	---	38.4	41.6	66.8							
LOWER SANDS CREEK	3120	4/28/88	18	7.6	2.8	16.3							
MOSQUITO RIDGE	5200	5/01/88	---	17.3E	18.2	36.6							
MOSQUITO PILLOW	5200	5/01/88	---	17.0	17.5	37.0							
SCHWEITZER BASIN	6090	5/02/88	81	36.1	38.8	51.1							
SCHWEITZER BN PILLOW	6090	5/01/88	---	39.6	40.3	53.3							
SCHWEITZER BOWL	4800	5/02/88	13	5.0	13.5	24.2							
SCHWEITZER RIDGE	6200	5/02/88	71	31.9	43.0	48.8							
SHERWIN	3200	4/28/88	0	.0	.0	4.6							
SHERWIN PILLOW	3200	5/01/88	---	.0	.0	6.8							
SKITWISH RIDGE	5110	4/27/88	27	13.0	6.4	28.8							
SUNSET	5540	5/01/88	---	20.3E	18.0	32.8							
SUNSET PILLOW	5540	5/01/88	---	22.8	19.7	35.1							
CLEARWATER AND SALMON BASINS							WATERSHED II						
BANNER SUMMIT	7040	4/27/88	32	14.4	7.9	30.0	ATLANTA SUMMIT	7600	4/27/88	55	22.6	10.3	35.6
BANNER SUMMIT PILLOW	7040	5/01/88	---	12.5	5.9	28.2	ATLANTA SUM PILLOW	7580	5/01/88	---	18.8	8.3	33.1
BEAR BASIN	5350	4/30/88	12	4.0	.0	17.6	ATLANTA TOWNSITE	5370	4/27/88	0	.0	.0	---
BEAR BASIN PILLOW	5350	5/01/88	---	6.9	.0	19.0	BANNER SUMMIT	7040	4/27/88	32	14.4	7.9	30.0
BIG CREEK SUMMIT	6580	4/30/88	52	23.5	9.4	37.6	BANNER SUMMIT PILLOW	7040	5/01/88	---	12.5	5.9	28.2
BIG CREEK SUM PILLOW	6580	5/01/88	---	20.0	10.9	33.9	BAD BEAR	4940	4/29/88	0	.0	.0	5.0
BOULDER CREEK	5440	4/30/88	0	.0	.0	14.6	BEAR BASIN	5350	4/30/88	12	4.0	.0	17.6
BREEZY SADDLE	5010	4/26/88	29	12.0	8.1	26.9	BEAR BASIN PILLOW	5350	5/01/88	---	6.9	.0	19.0
BRUNO CREEK	7920	5/02/88	25	9.8	.0	16.3	BEAR SADDLE	6180	5/01/88	---	.0E	.0	25.6
BUCK MEADOWS	5650	4/26/88	46	20.0	10.4	27.1	BEAR SADDLE PILLOW	6180	5/01/88	---	.4	.0	24.6
CAYUSE AIRSTRIP	3500	4/26/88	0	.0	.0	.7	BENNETT MOUNTAIN	6560	5/01/88	---	.0E	.0	11.2
COOL CREEK	6250	4/26/88	94	37.2	30.1	53.2	BENNETT MTN PILLOW	6560	5/01/88	---	.0	.0	14.0
COOL CREEK PILLOW	6280	5/01/88	---	39.1	32.1	52.0	BIG CREEK SUMMIT	6580	4/30/88	52	23.5	9.4	37.6
COOLWATER MOUNTAIN	6030	4/26/88	72	29.8	18.5	35.8	BIG CREEK SUM PILLOW	6580	5/01/88	---	20.0	10.9	33.9
CRATER MEADOWS	5960	4/26/88	66	31.1	24.4	47.0	BOGUS BASIN	6340	5/02/88	11	4.3	.0	22.5
CRATER MDWS PILLOW	5960	5/01/88	---	29.3	18.3	49.9	BOGUS BASIN ROAD	5540	5/02/88	0	.0	.0	.3
CROOKED FORK	3610	5/03/88	0	.0	.0	2.6	BOULDER CREEK	5440	4/30/88	0	.0	.0	14.6
DEADWOOD SUMMIT	6860	4/26/88	56	26.5	15.9	45.9	BRUNDAGE RESV PILLOW	4500	5/01/88	---	12.0	2.2	---
DEADWOOD SUM PILLOW	6860	5/01/88	---	26.9	15.3	55.9	COUCH SUMMIT	6840	4/27/88	0	.0	.0	14.2
ELK BUTTE	5550	4/26/88	23	10.3	2.8	31.5	COZY COVE	5380	4/27/88	0	.0	.0	8.7
ELK BUTTE PILLOW	5550	5/01/88	---	18.4	12.9	38.7	COZY COVE PILLOW	5380	5/01/88	---	.0	.0	11.5
FISH LAKE AIRSTRIP	5650	4/26/88	68	30.4	19.8	40.2	CRAWFORD R.S.	4860	4/30/88	0	.0	.0	.2
FORTY-NINE MEADOWS	4830	4/26/88	26	11.6	4.2	25.1	DEADMAN GULCH	5600	4/29/88	2	.8	2.2	10.6
GALENA SUMMIT	8780	4/28/88	36	14.4	4.4	25.8	DEADWOOD AIRSTRIP	5360	5/01/88	---	.0E	.0	7.1
GALENA SUMMIT PILLOW	8780	5/01/88	---	11.5	4.7	21.2	DEADWOOD SUMMIT	6860	4/27/88	56	26.5	15.9	45.9
GIBBONS PASS	7100	4/29/88	34	15.8	5.8	23.9	DEADWOOD SUM PILLOW	6860	5/01/88	---	26.9	15.3	55.9
GOAT LAKE	6500	4/26/88	87	39.5	28.7	50.9	DOLLARHIDE SUMMIT	8420	4/27/88	44	16.0	7.1	25.0
GRANITE PEAK	6000	4/26/88	75	30.6	24.9	46.1	DOLLARHIDE SM PILLOW	8420	5/01/88	---	17.0	8.3	25.5
HEMLOCK BUTTE	5810	4/26/88	63	26.4	16.8	50.7	GRAHAM GUARD STATION	5690	4/27/88	0	.0	.0	6.9
HEMLOCK BUTTE PILLOW	5810	5/01/88	---	29.0	19.4	53.0	GRAHAM G.S. PILLOW	5690	5/01/88	---	.0	.0	9.0
HOODOO BASIN	6050	4/30/88	90	42.6	31.1	53.2	IDAHO CITY TOWNSITE	4000	4/29/88	0	.0	.0	.0
HOODOO CREEK	5900	4/30/88	80	35.5	27.2	49.3	JACKSON PEAK	7070	4/27/88	41	17.4	8.7	31.4
KIT CARSON PASTURE	4950	4/29/88	0	.0	---	---	JACKSON PEAK PILLOW	7070	5/01/88	---	18.7	9.1	32.2
LEMHI PASS	7480	4/26/88	20	6.4	.8	7.2	LAKE FORK	5290	4/30/88	0	.0	.0	12.7
LEMHI RIDGE	8100	4/26/88	25	7.6	2.8	10.0	MOORES CREEK SUMMIT	6100	4/29/88	38	16.7	3.8	31.7
LOLO PASS	5240	5/03/88	35	15.0	5.4	28.3	MOORES CK SUM PILLOW	6100	5/01/88	---	19.6	4.4	34.3
LOLO PASS PILLOW	5240	5/01/88	---	14.2	4.3	29.5	PRAIRIE	4800	5/01/88	---	.0E	.0	.0
LOST LAKE	6110	4/26/88	91	39.1	35.5	60.1	PRAIRIE PILLOW	4800	5/01/88	---	.0	.0	.0
LOST LAKE PILLOW	6110	5/01/88	---	38.4	41.6	66.8	ROAD CREEK	5380	4/27/88	0	.0	.0	.5
MEADOW LAKE	9150	5/01/88	---	14.3E	5.0	20.9	ROCK FLAT SUMMIT	5310	4/30/88	0	.0	.0	16.9
MILL CREEK SUMMIT	8800	4/29/88	44	16.8	8.0	24.4	SECESH SUMMIT	6520	4/30/88	35	15.4	6.2	34.5
MILL CREEK ST PILLOW	8800	5/01/88	---	16.3	---	22.9	SECESH SUMMIT PILLOW	6520	5/01/88	---	18.3	6.0	34.9
MOONSHINE	7440	4/27/88	5	1.4	---	8.3	SOLDIER R.S.	5740	4/27/88	0	.0	.0	1.4
MOONSHINE PILLOW	7440	5/01/88	---	3.0	.0	10.6	SOLDIER R.S. PILLOW	4330	5/01/88	---	.0	.0	---
MOOSE CREEK	6200	4/29/88	21	7.2	.0	14.4	SQUAW FLAT	6240	4/30/88	13	5.4	8.8	21.1
MOOSE CR PILLOW	6200	5/01/88	---	7.9	.0	14.4	SQUAW FLAT PILLOW	6240	5/01/88	---	6.6	.0	19.1
MORGAN CREEK	7600	4/29/88	8	3.6	.0	12.5	SQUAW MEADOW	5900	4/30/88	27	11.8	7.2	34.8
MORGAN CREEK PILLOW	7600	5/01/88	---	2.5	.0	11.6	TRINITY MOUNTAIN	7770	4/27/88	59	25.9	14.0	43.7
MOUNTAIN MEADOWS	6360	4/26/88	43	16.5	1.7	23.5	TRINITY MTN. PILLOW	7770	5/01/88	---	26.2	13.2	45.4
MOUNTAIN MDWS PILLOW	6360	5/01/88	---	21.3	8.1	27.4	TRIPOD SUMMIT	5260	4/30/88	0	.0	.0	16.6
NEZ PERCE PASS	6570	4/29/88	20	9.2	.0	15.5	VIENNA MINE	8960	4/27/88	59	25.9	15.4	39.1
PIERCE R.S.	3080	5/01/88	0	.0	.0	---	VIENNA MINE PILLOW	8960	5/01/88	---	24.8	12.8	40.3
ROCK FLAT SUMMIT	5310	4/30/88	0	.0	.0	16.9	WEST BRANCH	5560	4/30/88	0	.0	.0	18.6
SADDLE MOUNTAIN	7940	4/29/88	50	22.2	12.5	28.6	WEST BRANCH PILLOW	5560	5/01/88	---	.0	.0	20.2
WEISER, PAYETTE AND BOISE BASINS							WATERSHED III						

# SNOW DATA MEASUREMENTS (cont.)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
BIG WOOD, LITTLE WOOD, BIG LOST AND LITTLE LOST BASINS							SOUTHSIDE SNAKE BASIN						
WATERSHED IV							WATERSHED VI						
BEAR CANYON	7900	4/27/88	23	8.0	3.3	17.9	BADGER GULCH	6660	4/29/88	0	.0	.0	--
BEAR CANYON PILLOW	7900	5/01/88	---	8.8	4.1	17.2	BEAR CREEK	7800	5/01/88	---	11.8E	3.8	21.5
BENNETT MOUNTAIN	6560	5/01/88	---	.0E	.0	11.2	BEAR CK SNOTEL	7800	5/01/88	---	9.6	2.3	23.2
BENNETT MTN PILLOW	6560	5/01/88	---	.0	.0	14.0	BIG BEND	6700	5/01/88	0	.0E	--	2.8
COPPER BASIN	7640	4/27/88	0	.0	.0	7.5	BOSTETTER R.S.	7500	4/29/88	21	8.4	4.2	13.5
COUCH SUMMIT	6840	4/27/88	0	.0	.0	14.2	BOSTETTER RS PILLOW	7500	5/01/88	---	.3	.0	11.7
DOLLARHIDE SUMMIT	8420	4/27/88	44	16.0	7.1	25.0	CEDAR CREEK	6820	5/02/88	0	.0	--	3.7
DOLLARHIDE SM PILLOW	8420	5/01/88	---	17.0	8.3	25.5	DEADLINE	7400	5/02/88	0	.0	.0	20.3
FISHPOLE LAKE	9300	4/27/88	47	16.2	6.9	23.6	DEADLINE SOUTH	7450	5/02/88	0	.0	.0	25.1
GALENA	7440	5/01/88	---	.0E	.0	14.5	FRY CANYON	6700	5/01/88	0	.0E	--	1.3
GALENA PILLOW	7440	5/01/88	---	7.0	1.6	20.1	GOAT CREEK	8800	5/02/88	45	16.6	7.3	20.9
GALENA NEW	7470	4/28/88	21	7.9	1.0	20.7	HOWELL CANYON	7980	4/29/88	22	9.7	7.2	23.5
GALENA SUMMIT	8780	4/28/88	36	14.4	4.4	25.8	HOWELL CANYON PILLOW	7980	5/01/88	---	3.7	.0	20.3
GALENA SUMMIT PILLOW	8780	5/01/88	---	11.5	4.7	21.2	HUMMINGBIRD SPRINGS	8950	5/02/88	54	21.6	13.1	27.7
GARFIELD R.S.	6560	4/27/88	0	.0	.0	2.3	JACKS PEAK	8420	5/01/88	---	9.0E	--	28.3
GARFIELD R.S. PILLOW	6560	5/01/88	---	.0	.0	5.5	LANCFORD FLAT CREEK	5980	5/02/88	0	.0	.0	.9
GRAHAM RANCH	6270	4/28/88	0	.0	.0	9.1	LAUREL DRAW	6700	5/01/88	---	2.5E	--	1.3
HILTS CREEK	8000	4/28/88	20	5.8	.0	9.3	MAGIC MOUNTAIN	6880	5/02/88	10	3.8	.0	18.0
HILTS CREEK PILLOW	8000	5/01/88	---	8.7	.5	11.1	MAGIC MTN PILLOW	6880	5/01/88	---	.5	.0	18.0
HYNDMAN CREEK	7440	4/27/88	6	1.8	.0	10.7	MUD FLAT	5730	5/01/88	---	.0E	.0	.2
HYNDMAN PILLOW	7440	5/01/88	---	.0	.0	11.1	MUD FLAT PILLOW	5730	5/01/88	---	.0	.0	.0
LOST-WOOD DIVIDE	7900	4/27/88	28	11.1	1.0	22.4	POLE CREEK R.S.	8330	5/02/88	47	18.8	11.8	23.4
LOST-WOOD DVD PILLOW	7900	5/01/88	---	10.7	.0	26.3	SEVENTYSIX CREEK	7100	5/01/88	0	.0E	--	7.6
MASCOT MINE	7780	4/27/88	14	4.7	.0	15.3	SEVENTYSIX CK SNOTEL	7100	5/01/88	0	.0E	.0	--
MOONSHINE	7440	4/28/88	5	1.4	--	8.3	SHOSHONE BASIN	5810	5/01/88	---	.0E	.0	1.0
MOONSHINE PILLOW	7440	5/01/88	---	3.0	.0	10.6	SOUTH MOUNTAIN	6500	4/30/88	0	.0	.0	8.2
MOUNT BALDY	8920	5/01/88	---	12.7E	--	23.1	SOUTH MTN PILLOW	6500	5/01/88	---	.0	.0	7.2
MULDOON	6320	4/27/88	0	.0	.0	.5	TAYLOR CANYON	6200	5/01/88	0	.0E	--	.7
SAWMILL CANYON	7000	4/28/88	0	.0	.0	4.3	WILSON CREEK	7500	5/02/88	0	.0	--	7.8
SOLDIER R.S.	5740	4/27/88	0	.0	.0	1.4							
SOLDIER R.S. PILLOW	4330	5/01/88	---	.0	.0	--							
STICKNEY MILL	7430	4/27/88	0	.0	.0	6.0							
STICKNEY MILL PILLOW	7430	5/01/88	---	.0	.0	5.4							
SWEDE PEAK	7640	4/27/88	9	3.1	.0	15.6							
SWEDE PEAK PILLOW	7640	5/01/88	---	.0	.0	15.0							
VIENNA MINE	8960	4/27/88	59	25.9	15.4	39.1							
VIENNA MINE PILLOW	8960	5/01/88	---	24.8	12.8	40.3							
WET CREEK SUMMIT	7680	4/28/88	14	4.6	.0	7.4							
WILLOW, BLACKFOOT, UPPER SNAKE AND PORTNEUF BASINS							GREAT BASIN						
WATERSHED V							WATERSHED VII						
ASPEN GROVE	6500	5/01/88	---	.0E	.0	--	CUB RIVER R.S.	5450	4/28/88	0	.0	.0	.4
BEAVERDAM CREEK	6120	4/29/88	0	.0	.0	--	EMIGRANT SUMMIT	7390	4/28/88	23	9.0	.5	23.6
BIG SPRINGS	6400	4/29/88	8	3.6	.0	16.2	EMIGRANT SUM PILLOW	7390	5/01/88	---	9.0	.2	27.3
BIRCH CREEK	6800	4/28/88	0	.0	.0	4.4	EMIGRATION CANYON	6500	4/28/88	0	.0	.0	--
BLACK BEAR	7950	4/27/88	84	36.5	9.8	44.2	FRANKLIN BASIN	8020	4/28/88	30	12.3	8.9	20.7
BLUE LEDGE MINE	6900	5/01/88	---	2.3E	.0	--	FRANKLIN BSN PILLOW	8040	4/28/88	31	13.3	.0	28.0
BLUE RIDGE	6780	4/28/88	0	.0	.0	17.4	GIVEOUT	6860	4/28/88	5	1.4	.0	7.1
BONE	6200	4/28/88	0	.0	.0	1.0	GIVEOUT PILLOW	6840	5/01/88	---	.0	.0	6.0
BROCKMAN STATION	6430	4/28/88	0	.0	.0	--	LITTLE BEAVER	6790	4/28/88	3	1.0	.0	9.9
COULTER CREEK PILLOW	7020	5/01/88	---	4.2	.0	18.3	LOWER HOME CANYON	7640	4/28/88	4	1.4	.0	11.5
COLD SPRINGS	7000	4/30/88	5	1.7	.7	--	OXFORD MOUNTAIN	6800	5/01/88	---	.0E	--	--
CRAB CREEK	6860	5/01/88	---	1.5E	.0	15.7	OXFORD SPRING PILLOW	6740	5/01/88	---	.0	.0	6.7
CRAB CREEK PILLOW	6860	5/01/88	---	1.8	.0	16.2	STRAWBERRY CREEK	5820	4/28/88	0	.0	.0	3.2
EAST CREEK	7000	4/29/88	0	.0	.0	--	UPPER HOME CANYON	8560	4/28/88	40	15.0	6.7	23.8
FALL CREEK	6820	4/28/88	0	.0	.0	--	WILLOW FLAT	6070	4/28/88	0	.0	.0	5.9
GRASSY LAKE	7270	4/29/88	47	23.6	.0	34.9							
GRASSY LAKE PILLOW	7270	5/01/88	---	23.3	4.1	36.4							
INDIAN MEADOWS	9420	4/28/88	69	28.9	.0	38.1							
ISLAND PARK	6290	4/29/88	0	.0	.0	10.3							
ISLAND PARK PILLOW	6290	5/01/88	---	.8	.0	14.3							
JACKPINE CREEK	7350	4/28/88	30	11.9	.0	21.7							
LAVA CREEK	7350	4/28/88	3	1.2	.0	12.1							
LOWER PEBBLE	5780	4/30/88	0	.0	.0	--							
MADISON PLATEAU	7750	4/27/88	48	20.0	2.5	23.2							
MC RENOLDS RESERVOIR	6720	4/28/88	0	.0	.0	16.3							
MINK CREEK	6410	5/01/88	---	.0E	.0	13.2							
MUD CREEK	7100	4/28/88	23	9.1	--	16.0							
PACKSADDLE SPRING	8200	4/28/88	55	22.2	9.2	29.0							
PEBBLE CREEK	6550	4/30/88	0	.0	.0	--							
PHILLIPS BENCH	8200	4/26/88	73	27.6	16.5	31.1							
PHILLIPS BENCH PILL.	8200	5/01/88	---	23.1	8.4	30.2							
PINE CREEK PASS	6810	4/28/88	11	5.3	.0	12.7							
PUTNAM	7220	4/30/88	8	3.1	.0	--							
SAWTELL MOUNTAIN	8720	4/29/88	72	28.8	--	39.1							
SEDCWICK PEAK	7850	4/29/88	11	4.7	.3	--							
SHEEP MOUNTAIN	6570	4/28/88	0	.0	.0	9.5							
SHEEP MTN PILLOW	6570	5/01/88	---	.0	.0	10.3							
SLUG CREEK DIVIDE	7230	4/28/88	2	.9	.0	13.5							
SLUG CK DVD PILLOW	7230	5/01/88	---	.7	.0	16.4							
SOMSEN RANCH	6840	4/27/88	3	1.0	.0	12.2							
SOMSEN RANCH PILLOW	6800	5/01/88	---	.0	.0	9.8							
STATE LINE	6660	4/28/88	10	4.2	.0	9.1							
TETON PASS W.S.	7740	4/27/88	59	23.2	13.1	28.3							
TEX CREEK	6650	5/01/88	---	.0E	.0	--							
TOPONCE	6160	5/02/88	0	.0	.0	--							
VALLEY VIEW	6680	4/29/88	2	.5	.0	12.8							
WHISKEY CREEK	6800	4/27/88	26	10.7	.0	18.7							
WHITE ELEPHANT	7710	4/29/88	40	16.8	.0	25.3							
WHITE ELEPHANT PILL	7710	5/01/88	---	20.8	2.6	27.2							
WILDHORSE DIVIDE	6490	5/01/88	---	.0E	.0	12.1							
WILDHORSE DVD PILLOW	6490	5/01/88	---	.3	.0	10.6							





# The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

<b>State</b>	Idaho Department of Water Resources Soil and Water Conservation Districts of Idaho
<b>Federal</b>	U.S. Department of Agriculture Forest Service U.S. Department of Army Corps of Engineers U.S. Department of Commerce NOAA, National Weather Service U.S. Department of Interior Bureau of Reclamation Geological Survey, Water Resources Division Shoshone-Bannock Tribal Council
<b>Local</b>	Big Lost River Irrigation District Big Wood Irrigation Company Boise Project Board of Control Idaho Water District #01 Lewiston Orchards Irrigation District Little Wood River Irrigation District North Board of Control — Owyhee Project Salmon Falls Irrigation Company South Board of Control — Owyhee Project
<b>Private</b>	Cyprus Mining Company FMC Corporation Idaho Power Company Le Bois Resort Washington Water Power Company

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

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